

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A system for analyzing samples comprising:

a) a portable analysis unit comprising:

i) a sample inlet;

ii) an analyzer for determining a characteristic of a sample and

providing data about the characteristic;

iii) a reagent supply reservoir;

iv) a collection reservoir for waste comprising used reagent and
analyzed sample;

v) a reagent inlet for providing reagent to the supply reservoir;

vi) a waste outlet for removing waste from the collection reservoir;

vii) a supply conduit from the reagent supply reservoir to the analyzer;

viii) a waste conduit from the analyzer to the collection reservoir;

ix) [[a]] an analysis unit power source for providing power to the
analyzer;

x) a data output element for outputting data generated by the
analyzer;

xi) a pressure source for moving reagent and waste; and

b) a base unit adapted for connection to the analyzer unit for providing
reagent to the analysis unit and receiving waste from the collection reservoir, the base unit
comprising:

i) a reagent storage reservoir;

ii) a waste storage reservoir;

iii) a waste inlet for connection to the waste outlet of the analysis unit
for receiving waste from the analysis unit; and

iv) a reagent outlet for providing reagent from the reagent storage reservoir to the reagent inlet of the analysis unit;
wherein the base unit and the analysis unit are adapted to be capable of being alternatively disposed in: a disconnected configuration wherein the analysis unit is separate from the base unit[[: and]] or
a connected configuration wherein the reagent outlet is connected to the reagent inlet and the waste inlet is connected to the waste outlet; and
wherein the analysis unit is capable of analyzing a sample while in the disconnected configuration, and
wherein the analysis unit power source comprises a rechargeable battery; and
the base unit further comprises a battery charger connectable to the analysis unit
power source.

Claim 2. (Previously Presented) The system for analyzing samples of claim 1 wherein the portable analysis unit further comprises a multiport valve coupled to the pressure source, the supply conduit and the waste conduit.

Claim 3. (Previously Presented) The system for analyzing samples of claim 2 wherein the portable analysis unit further comprises a reaction chamber coupled to the multiport valve.

Claim 4. (Previously Presented) The system for analyzing samples of claim 2 wherein:

the analysis unit further comprises:
a wash fluid supply reservoir coupled to the multiport valve; and
a wash fluid inlet for providing wash fluid to the wash fluid supply reservoir; and
the base unit further comprises:
a wash fluid storage reservoir; and

a wash fluid outlet for providing wash fluid from the wash fluid storage reservoir to the wash fluid inlet of the analysis unit.

Claim 5. (Previously Presented) The system for analyzing samples of claim 2 wherein:

the analysis unit further comprises:

a support fluid supply reservoir coupled to the multiport valve; and
a support fluid inlet for providing support fluid to the support fluid supply

reservoir; and

the base unit further comprises:

a support fluid storage reservoir; and
a support fluid outlet for providing support fluid from the support fluid storage reservoir to the support fluid inlet of the analysis unit.

Claim 6. (Previously Presented) The system for analyzing samples of claim 2 wherein the portable analysis unit further comprises a controller controlling the analyzer and the multiport valve.

Claim 7. (Previously Presented) The system for analyzing samples of claim 6 wherein the controller comprises a microcomputer capable of inputting data and outputting data.

Claim 8. (Previously Presented) The system for analyzing samples of claim 7 wherein the analysis unit further comprises a user input device for inputting data into the analysis unit microcomputer.

Claim 9. (Previously Presented) The system for analyzing samples of claim 6 wherein the controller contains a set of instructions for directing the automatic self-cleaning of the analysis unit.

Claim 10. (Previously Presented) The system for analyzing samples of claim 6 wherein the controller contains a set of instructions for directing the automatic self-calibrating of the analysis unit.

Claim 11. (Previously Presented) The system for analyzing samples of claim 6 wherein the controller contains a set of instructions for directing the automatic self-replenishing of reagents in the reagent supply reservoir.

Claim 12. (Previously Presented) The system for analyzing samples of claim 6 wherein the controller contains a set of instructions for directing the automatic self-testing of the analysis unit.

Claim 13. (Canceled).

Claim 14. (Previously Presented) The system for analyzing samples of claim 1 wherein the base unit further comprises a pump for providing reagents from the reagent storage reservoir to the portable analysis unit reagent inlet.

Claim 15. (Previously Presented) The system for analyzing samples of claim 14 wherein the base unit further comprises a controller coupled to the base unit pump.

Claim 16. (Previously Presented) The system for analyzing samples of claim 15 wherein the base unit further comprises a user input device for inputting data into the base unit controller.

Claim 17. (Previously Presented) The system for analyzing samples of claim 1 wherein:

the portable analysis unit further comprises:
a control sample inlet; and

the base unit further comprises:
a control sample storage reservoir; and
a control sample outlet for providing control sample from the control
sample storage reservoir to the control sample inlet.

Claim 18. (Previously Presented) The system for analyzing samples of claim 1
wherein the analyzer is a cytometer flow cell.

Claim 19. (Previously Presented) The system for analyzing samples of claim 18
wherein the cytometer flow cell comprises a core stream hydrodynamically focused by a sheath
flow.

Claim 20. (Previously Presented) The system for analyzing samples of claim 1
wherein the pressure source is a pump.

Claim 21. (Original) A method for analyzing samples comprising:
a) selecting the portable analysis unit of claim 1;
b) obtaining a sample;
c) entering the sample into the sample inlet; and
d) analyzing the sample using the portable analysis unit of claim 1 to obtain
an analysis for the sample.

Claim 22. (Previously Presented) A method for analyzing samples using the
system for analyzing samples of claim 1, the method comprising:
a) disposing the base unit and the analysis unit in the connected
configuration;
b) transferring a reagent between the base unit reagent outlet and the analysis
unit reagent inlet;

- c) disposing the base station and the analysis unit in the disconnected configuration;
- d) loading a sample into the analysis unit sample inlet; and
- e) processing the sample using the portable analysis device to obtain an analysis for the sample.

Claim 23. (Currently Amended) A modular analyzing device comprising:

- a) an analysis unit comprising:
 - i) a reagent supply reservoir;
 - ii) a reagent inlet for providing reagent to the reagent supply reservoir;
 - iii) a wash fluid supply reservoir;
 - iv) a wash fluid inlet for providing wash fluid to the wash fluid supply reservoir;
 - v) a support fluid supply reservoir;
 - vi) a support fluid inlet for providing support fluid to the support fluid supply reservoir;
 - vii) a waste collection reservoir;
 - viii) a waste outlet for removing waste from the waste collection reservoir;
 - ix) a sample inlet;
 - x) a pressure source;
 - xi) a reaction chamber;
 - xii) a multiport valve disposed in fluid tight communication with the sample inlet, the supply reservoirs, the pressure source, the reaction chamber and the waste collection reservoir;
 - xiii) an analyzer for determining a characteristic of a sample and providing data about the characteristic, the analyzer being coupled to the reaction chamber; and

- xiv) [[a]] an analysis unit power source;
- b) a base unit comprising:
 - i) a base unit reagent storage reservoir;
 - ii) a base unit reagent outlet for providing reagent from the reagent storage reservoir to the reagent inlet of the analysis unit;
 - iii) a base unit wash fluid storage reservoir;
 - iv) a base unit wash fluid outlet for providing reagent from the wash fluid storage reservoir to the wash fluid inlet of the analysis unit;
 - v) a base unit control sample storage reservoir;
 - vi) a base unit control sample outlet for providing control sample from the control sample storage reservoir to the control sample inlet of the analysis unit;
 - vii) a support fluid storage reservoir;
 - viii) a support fluid outlet for providing support fluid from the support fluid storage reservoir to the support fluid inlet of the analysis unit;
 - ix) a waste storage reservoir; and
 - x) a waste inlet for connection to the waste outlet of the analysis unit for receiving waste from the analysis unit; and
- c) a controller comprising: a microcomputer capable of outputting data and a user input device for inputting data into the microcomputer;
 - wherein the controller has a set of instructions for at least one of: directing the automatic self-cleaning of the analysis unit, directing the automatic self-calibrating of the analysis unit, directing the automatic replenishing of reservoir fluids in the analysis unit, and directing the automatic self-testing of the analysis unit; and
 - wherein the base unit and the analysis unit are adapted to be capable of being alternatively disposed in:
 - a disconnected configuration wherein the analysis unit is separate from the base unit~~[[; and]]~~ or
 - a connected configuration wherein the reagent outlet is connected to the reagent inlet, the wash fluid outlet is connected to the wash fluid inlet, the support fluid

outlet is connected to the support fluid inlet, and the control sample outlet is connected to the control sample inlet,

wherein the analysis unit power source comprises a rechargeable battery; and
the base unit further comprises a battery charger connectable to the analysis unit
power source.